

Title: 125P5C8: A TISSUE SPECIFIC PROTEIN HIGHLY
EXPRESSED IN VARIOUS CANCERS

First Inventor: Mary FARIS

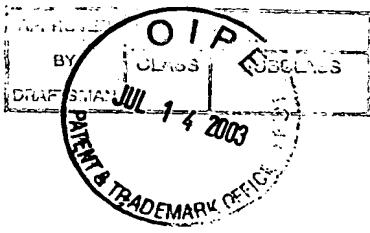
Application No.: 09/809,638

Docket No.: 511582003500

1/10

GATCACGTGCTGTCGATATCCTCACATTGCCATGTTAGTGAGCTGTAGATAATCTCT
GGAGGCCAGGTGCTGAAGTGATATATCCCAGAAATATCACTTGATTAGAGCTACTTTCA
GTAGTTTGAAACAGCAATAGCCTGCAGTTCCCTGTCGAGGTCACTTCGTGGTTCCCA
AAGTGTGTCACGACAAAATCCACCAAGCTTGCCCCAAATGTTAACGGTCAATGTGATGGC
TGGTGCGATCTTGCTGTGTTGCCAGGCTGGTCTAACGTGCAGATAGATC

Figure 1



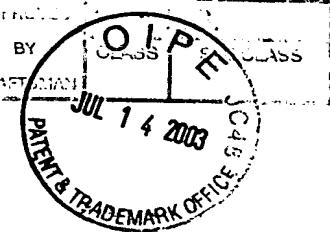
Title: 125P5C8: A TISSUE SPECIFIC PROTEIN HIGHLY
EXPRESSED IN VARIOUS CANCERS
First Inventor: Mary FARIS
Application No.: 09/809,638
Docket No.: 511582003500

2/10

	M	T	S	L	W	R	E	I	L	L	E	S	L	L	G	C	V	S
1	ATG	ACC	TCG	CTG	TGG	AGA	GAA	ATC	CTC	TTG	GAG	TCG	TCG	CTG	GGA	TGT	GTT	TCT
	W	S	L	Y	H	D	L	G	P	M	I	Y	Y	F	P	L	Q	T
55	TGG	TCT	CTC	TAC	CAT	GAC	CTG	GGA	CCG	ATG	ATC	TAT	TAC	TTT	CCT	TTG	CAA	ACA
	L	E	L	T	G	L	E	G	F	S	I	A	F	L	S	P	I	F
109	CTA	GAA	CTC	ACT	GGG	CTT	GAA	GGT	TTT	AGT	ATA	GCA	TTT	CTT	TCT	CCA	ATA	TTC
	L	T	I	T	P	F	W	K	L	V	N	K	K	W	M	L	T	L
163	CTA	ACA	ATT	ACT	CCT	TTC	TGG	AAA	TTG	GTT	AAC	AAG	AAG	TGG	ATG	CTA	ACC	CTG
	L	R	I	I	T	I	G	S	I	A	S	F	Q	A	P	N	A	K
217	CTG	AGG	ATA	ATC	ACT	ATT	GGC	AGC	ATA	GCC	TCC	TTC	CAG	GCT	CCA	AAT	GCC	AAA
	L	R	L	M	V	L	A	L	G	V	S	S	S	L	I	V	Q	A
271	CTT	CGA	CTG	ATG	GTT	CTT	GCG	CTT	GGG	GTG	TCT	TCC	TCA	CTG	ATA	GTG	CAA	GCT
	V	T	W	W	S	G	S	H	L	Q	R	Y	L	R	I	W	G	F
325	GTG	ACT	TGG	TGG	TCG	GGA	AGT	CAT	TTG	CAA	AGG	TAC	CTC	AGA	ATT	TGG	GGA	TTC
	I	L	G	Q	I	V	L	V	V	L	R	I	W	Y	T	S	L	N
379	ATT	TTA	GGA	CAG	ATT	GTT	CTT	GTT	CTA	CGC	ATA	TGG	TAT	ACT	TCA	CTA	CAA	AAC
	P	I	W	S	Y	Q	M	S	N	K	V	I	L	T	L	S	A	I
433	CCA	ATC	TGG	AGT	TAT	CAG	ATG	TCC	AAC	AAA	GTG	ATA	CTG	ACA	TTA	AGT	GCC	ATA
	A	T	L	D	R	I	G	T	D	G	D	C	S	K	P	E	E	K
487	GCC	ACA	CTT	GAT	CGT	ATT	GGC	ACA	GAT	GGT	GAC	TGC	AGT	AAA	CCT	GAA	GAA	AAG
	K	T	G	E	V	A	T	G	M	A	S	R	P	N	W	L	L	A
541	AAG	ACT	GGT	GAG	GTA	GCC	ACG	GGG	ATG	GCC	TCT	AGA	CCC	AAC	TGG	CTG	CTG	GCA
	G	A	A	F	G	S	L	V	F	L	T	H	W	V	F	G	E	V
595	GGG	GCT	GCT	TTT	GGT	AGC	CTT	GTG	TTC	CTC	ACC	CAC	TGG	GTT	TTT	GGA	GAA	GTC
	S	L	V	S	R	W	A	V	S	G	H	P	H	P	G	P	D	P
649	TCT	CTT	GTT	TCC	AGA	TGG	GCA	GTG	AGT	GGG	CAT	CCA	CAT	CCA	GGG	CCA	GAT	CCT
	N	P	F	G	G	A	V	L	L	C	L	A	S	G	L	M	L	P
703	AAC	CCA	TTT	GGG	GGT	GCA	GTA	CTG	CTG	TGC	TTG	GCA	AGT	GGA	TTG	ATG	CTT	CCA
	S	C	L	W	F	R	G	T	G	L	I	W	W	V	T	G	T	A
757	TCT	TGT	TTG	TGG	TTT	CGT	GGT	ACT	GGT	TTG	ATC	TGG	TGG	GTT	ACA	GGA	ACA	GCT
	S	A	A	G	L	L	Y	L	H	T	W	A	A	A	V	S	G	C
811	TCA	GCT	GCG	GGG	CTC	CTT	TAC	CTG	CAC	ACA	TGG	GCA	GCT	GCT	GTG	TCT	GGC	TGT
	V	F	A	I	F	T	A	S	M	W	P	Q	T	L	G	H	L	I
865	GTC	TTC	GCC	ATC	TTT	ACT	GCA	TCC	ATG	TGG	CCC	CAA	ACA	CTT	GGA	CAC	CTT	ATT
	N	S	G	T	N	P	G	K	T	M	T	I	A	M	I	F	Y	L
919	AAC	TCA	GGG	ACA	AAC	CCT	GGG	AAA	ACC	ATG	ACC	ATT	GCC	ATG	ATA	TTT	TAT	CTT
	L	E	I	F	F	C	A	W	C	T	A	F	K	F	V	P	G	G
973	CTA	GAA	ATA	TTT	TTC	TGT	GCC	TGG	TGC	ACA	GCT	TTT	AAG	TTT	GTC	CCA	GGA	GGT
	V	Y	A	R	E	R	S	D	V	L	L	G	T	M	M	L	I	I
1027	GTC	TAC	GCT	AGA	GAA	AGA	TCA	GAT	GTG	CTT	TTG	GGG	ACA	ATG	ATG	TTA	ATT	ATC
	G	L	N	M	L	F	G	P	K	K	N	L	D	L	L	L	Q	T
1081	GGG	CTG	AAT	ATG	CTA	TTT	GGT	CCT	AAG	AAA	AAC	CTT	GAC	TTG	CTT	CTT	CAA	ACA
	K	N	S	S	K	V	L	F	R	K	S	E	K	Y	M	K	L	F
1135	AAA	AAC	AGT	TCT	AAA	GTG	CTT	TTC	AGA	AAG	AGT	GAA	AAA	TAC	ATG	AAA	CTT	TTT
	L	W	L	L	V	G	V	G	L	L	G	L	R	H	K	A		
1189	CTG	TGG	CTG	CTT	GTT	GGT	GTG	GGA	TTG	TTG	GGA	TTA	GGA	CTA	CGG	CAT	AAA	GCC
	Y	E	R	K	L	G	K	V	A	P	T	K	E	V	S	A	A	I
1243	TAT	GAG	AGA	AAA	CTG	GGC	AAA	GTG	GCA	CCA	ACC	AAA	GAG	GTC	TCT	GCT	GCC	ATC
	W	P	F	R	F	G	Y	D	N	E	G	W	S	S	L	E	R	S
1297	TGG	CCT	TTC	AGG	TTT	GGA	TAT	GAC	AAT	GAA	GGG	TGG	TCT	AGT	CTA	GAA	AGA	TCA
	A	H	L	L	N	E	T	G	A	D	F	I	T	I	L	E	S	D
1351	GCT	CAC	CTG	CTC	AAT	GAA	ACA	GGT	GCA	GAT	TTC	ATA	ACA	ATT	TTG	GAG	AGT	GAT
	A	S	K	P	Y	M	G	N	N	D	L	T	M	W	L	G	E	K

Figure 2A

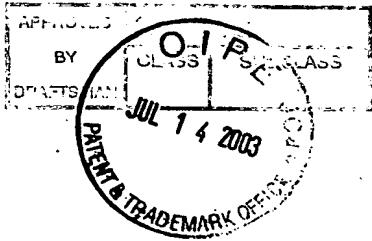
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1405 GCT TCT AAG CCC TAT ATG GGG AAC AAT GAC TTA ACC ATG TGG CTA GGG GAA AAG
L G F Y T D F G P S T R Y H T W G I
1459 TTG GGT TTC TAT ACA GAC TTT GGT CCA AGC ACA AGG TAT CAC ACT TGG GGG ATT
M A L S R Y P I V K S E H H L L P S
1513 ATG GCT TTG TCA AGA TAC CCA ATT GTG AAA TCT GAG CAT CAC CTT CTT CCG TCA
P E G E I A P A I T L T V N I S G K
1567 CCA GAG GGC GAG ATC GCA CCA GCC ATC ACA TTG ACC GTT AAC ATT TCG GGC AAG
L V D F V V T H F G N H E D D L D R
1621 CTG GTG GAT TTT GTC GTG ACA CAC TTT GGG AAC CAC GAA GAT GAC CTC GAC AGG
K L Q A I A V S K L L K S S S N Q V
1675 AAA CTG CAG GCT ATT GCT GTT TCA AAA CTA CTG AAA AGT AGC TCT AAT CAA GTG
I F L G Y I T S A P G S R D Y L Q L
1729 ATA TTT CTG GGA TAT ATC ACT TCA GCA CCT GGC TCC AGA GAT TAT CTA CAG CTC
T E H G N V K D I D S T D H D R W C
1783 ACT GAA CAT GGC AAT GTG AAG GAT ATC GAC AGC ACT GAT CAT GAC AGA TGG TGT
E Y I M Y R G L I R L G Y A R I S H
1837 GAA TAC ATT ATG TAT CGA GGG CTG ATC AGG TTG GGT TAT GCA AGA ATC TCC CAT
A E L S D S E I Q M A K F R I P D D
1891 GCT GAA CTG AGT GAT TCA GAA ATT CAG ATG GCA AAA TTT AGG ATC CCT GAT GAC
P T N Y R D N Q K V V I D H R E V S
1945 CCC ACT AAT TAT AGA GAC AAC CAG AAA GTG GTC ATA GAC CAC AGA GAA GTT TCT
E K I H F N P R F G S Y K E G H N Y
1999 GAG AAA ATT CAT TTT AAT CCC AGA TTT GGA TCC TAC AAA GAA GGA AAC CAC AAT TAT
E N N H H F H M N T P K Y F L *
2053 GAA AAC AAC CAT CAT TTT CAT ATG AAT ACT CCC AAA TAC TTT TTA TGA AAC

Figure 2B



Title: 125P5C8: A TISSUE SPECIFIC PROTEIN HIGHLY
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1	MTSLWREILL	ESLLGCVWS	LYHDLGPMIY	YFPLQTLELT	GLEGFSIAFL	50
51	SPIFLTITPF	WKLVNKKWML	TLIRIITIGS	IASFQAPNAK	LRLMVLALGV	100
101	SSSLIVQAVT	WWSGSHLQRY	LRIWGFIGLQ	IVLVVLRIWY	TSLNPIWSYQ	150
151	MSNKVILTLS	AIATLDRIGHT	DGDCKPEEK	KTGEVATGMA	SRPNWLLAGA	200
201	AFGSLVFLTH	WVFGEVSLVS	RWAVSGHPHP	GPDNPFGGA	VLLCLASGLM	250
251	LPSCLWFRGT	GLIWWVTGTA	SAAGLLYLHT	WAAA VSGCVF	AIFTASMWPQ	300
301	TILGHLINSGT	NPGKTMTIAM	IFYLLIEIFFC	AWCTAFKFVP	GGVYARERSD	350
351	VLLGTMMLII	GLNMLFGPKK	NLDLLLQTKN	SSKVLFRKSE	KYMKLFLWLL	400
401	VGVGLLGLGL	RHKAYERKLG	KVAPTKEVSA	AIWPFRFGYD	NEGWSSLERS	450
451	AHLLNETGAD	FITILESDAS	KPYMGNNNDLT	MWLGEKLGFY	TDFGPSTRYH	500
501	TWGIMALSRY	PIVKSEHHLL	PSPEGEIAPA	ITLTVNISGK	LVDFVVTHFG	550
551	NHEDDLDRKL	QAIAVSKLLK	SSSNQVIFLG	YITSAPGSRD	YLQLTEHGNV	600
601	KDIDSTDHDR	WCEYIMYRGL	IRLGYARISH	AELSDSEIQM	AKFRIPDDPT	650
651	NYRDNQKVVI	DHREVSEKIH	FNPRFGSYKE	GHNYENNHHF	HMNTPKYFL	699

Figure 3



Title: 125P5C8: A TISSUE SPECIFIC PROTEIN HIGHLY EXPRESSED IN VARIOUS CANCERS
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Application No.: 09/809,638
Docket No.: 511582003500

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Score = 1397 bits (3615), Expect = 0.0
Identities = 682/699 (97%), Positives = 683/699 (97%)

Query: 1 MTS LWREILLESLLGCVWSLYHDLGPMIYYFPLQTLELTGLEGSIAFLSPIFLTITPF 60
MTSLWREILLESLLGCVWSLYHDLGPMIYYFPLQTLELTGLEGSIAFLSPIFLTITPF
Sbjct: 1 MTS LWREILLESLLGCVWSLYHDLGPMIYYFPLQTLELTGLEGSIAFLSPIFLTITPF 60

Query: 61 WKL VNKKWMLTLLRIITIGSIASFQAPNAKLRLMVLALGVSSSLIVQAVTWWSGSHLQRY 120
WKL VNKKWMLTLLRIITIGSIASFQAPNAKLRLMVLALGVSSSLIVQAVTWWSGSHLQRY
Sbjct: 61 WKL VNKKWMLTLLRIITIGSIASFQAPNAKLRLMVLALGVSSSLIVQAVTWWSGSHLQRY 120

Query: 121 LRIWG FILGQIVLVVLRIWYTSLNPIWSYQMSNKVILTLSAIATLDRIGTDGDCSKPEEK 180
LRIWG FILGQIVLVVLRIWYTSLNPIWSYQMSNKVILTLSAIATLDRIGTDGDCSKPEEK
Sbjct: 121 LRIWG FILGQIVLVVLRIWYTSLNPIWSYQMSNKVILTLSAIATLDRIGTDGDCSKPEEK 180

Query: 181 KTGEVATGMASRPNWLLAGAAGFSLVFLTHWVFGEVSLVSRWA SGH PHPGDPNPFGGA 240
KTGEVATGMASRPNWLLAGAAGFSLVFLTHWVFGEVSLVSRWA SGH PHPGDPNPFGGA
Sbjct: 181 KTGEVATGMASRPNWLLAGAAGFSLVFLTHWVFGEVSLVSRWA SGH PHPGDPNPFGGA 240

Query: 241 VLLCLASGLMLPSCLWFRGTGLIWWVTGTASAAGLLYLHTWAAA VSGCVFAIFTASMWPQ 300
VLLCLASGLMLPSCLWFRGTGLIWWVTGTASAAGLLYLHTWAAA VSGCVFAIFTASMWPQ
Sbjct: 241 VLLCLASGLMLPSCLWFRGTGLIWWVTGTASAAGLLYLHTWAAA VSGCVFAIFTASMWPQ 300

Query: 301 TLGHLINSGTNPGKMTIAMIFYLLEIFFCAWCTAFKFVPGGVYARERSDVLLGTMMLII 360
TLGHLINSGTNPGKMTIAMIFYLLEIFFCAWCTAFKFVPGGVYARERSDVLLGTMMLII
Sbjct: 301 TLGHLINSGTNPGKMTIAMIFYLLEIFFCAWCTAFKFVPGGVYARERSDVLLGTMMLII 360

Query: 361 GLNMLFGPKKNLDLLQTKNSSKVLFRKSEKYMXXXXXXXXXXXXX RHKAYERKLG 420
GLNMLFGPKKNLDLLQTKNSSKVLFRKSEKYM RHKAYERKLG
Sbjct: 361 GLNMLFGPKKNLDLLQTKNSSKVLFRKSEKYM KFLWL LVGVGLGLRHKAYERKLG 420

Query: 421 KVAPTKEVSAAIWPFRFGYDNEGWSLERSAHLLNETGADFITILES DASKPYMGNNDLT 480
KVAPTKEVSAAIWPFRFGYDNEGWSLERSAHLLNETGADFITILES DASKPYMGNNDLT
Sbjct: 421 KVAPTKEVSAAIWPFRFGYDNEGWSLERSAHLLNETGADFITILES DASKPYMGNNDLT 480

Query: 481 MWLGEKLGFYTDGPSTRYHTWGIMALSRYPIVKSEHLLPSPEGEIAPAITLTVNISGK 540
MWLGEKLGFYTDGPSTRYHTWGIMALSRYPIVKSEHLLPSPEGEIAPAITLTVNISGK
Sbjct: 481 MWLGEKLGFYTDGPSTRYHTWGIMALSRYPIVKSEHLLPSPEGEIAPAITLTVNISGK 540

Query: 541 LVDFVVTHFGNHEDDLDRKLQIAAVSKLLKSSSNQVIFLGYITSAPGSRDYLQLTEHGNV 600
LVDFVVTHFGNHEDDLDRKLQIAAVSKLLKSSSNQVIFLGYITSAPGSRDYLQLTEHGNV
Sbjct: 541 LVDFVVTHFGNHEDDLDRKLQIAAVSKLLKSSSNQVIFLGYITSAPGSRDYLQLTEHGNV 600

Query: 601 KDIDSTDHDRCEYIMYRGLIRLG YARISHAELSDSEI QMAKFRI PDDPTNYRDNQKVVI 660
KDIDSTDHDRCEYIMYRGLIRLG YARISHAELSDSEI QMAKFRI PDDPTNYRDNQKVVI
Sbjct: 601 KDIDSTDHDRCEYIMYRGLIRLG YARISHAELSDSEI QMAKFRI PDDPTNYRDNQKVVI 660

Query: 661 DHREVSEKIHFNP RFGSYKEGH NYENNHH FHMNT PKYFL 699
DHREVSEKIHFNP RFGSYKEGH NYENNHH+ FHMNT PKYFL
Sbjct: 661 DHREVSEKIHFNP RFGSYKEGH NYENNHH FHMNT PKYFL 699

Figure 4A

APPROVED
P.
CLASS 1 SUBCLASS
1ST JUL 1-4-2003
PATENT & TRADEMARK OFFICE
Title: 125P5C8: A TISSUE SPECIFIC PROTEIN HIGHLY
EXPRESSED IN VARIOUS CANCERS
First Inventor: Mary FARIS
Application No.: 09/809,638
Docket No.: 511582003500

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Score = 261 bits (668), Expect = 1e-68
Identities = 204/705 (28%), Positives = 330/705 (45%), Gaps = 50/705 (7%)

Query: 15 GCVWSLYHDLGPMIYYFPLQTLELTGLEGSIAFLSPIFLTITPFWKLVNKWMLTLLR 74
G + WS L I++FPL + ++G E + +L PI FL + PF ++ + L
Sbjct: 279 GFLFWSNVTSLLCSIWHFPLWYMGISGYEAAILGYLGPIFLYL-PFVSEAFTOQYGVLLGG 337

Query: 75 IITIGSIASFQAPNAKLRLMVLALGVSSSLIVQAVTWWSGSHLQ-RYLRIGFILQIVL 133
II IG+ Q P +L + + ++ + VQ + + + + + W +LG +
Sbjct: 338 IIIAIGAYI-VQMPELRLISVAVGTSITVATFVQNLRYITNAETSFSFALTW--LLGLVAS 394

Query: 134 VVLRIWYTSLNPIWSYQMS----NKVILTLSAIATLDRIGHTDGDCSKPEEKKTGEVATG 188
V+L++ + + NP W NK L L+ + + + + E K+ + +
Sbjct: 395 VILKMGFYTNNPWTWILDERNGGYNKTALVLTFLGM--LSPYVNSINFEGKRNAQAKS- 451

Query: 189 MASRPNWLLAGAAFGLSVFLTHWVFGESLVSRAVSGHPHP-GPDPNPFGGAVLLCLAS 247
AS L FGSL+F H + + S WA G+ GP P P+G L C
Sbjct: 452 -ASLIGKLFLAVGFGSLLFGIHQLLTDSTTIYWAEGYNESHGPLPWGA--LTCTVM 508

Query: 248 GLMLPSCLWFRGTGLIWWVTGTASAAGLLY--LHTWAAA-SGCVFAIFTASMWPQ---T 301
S + F G L+ + S A L + W + G ++AI + P
Sbjct: 509 LFASLSSVKFMGKPLVPCLLLISTAVLSARSITQWPKYIFGGLLYAIAMLWLVPWFSA 568

Query: 302 LGHLINSGTNPGKMTIAMIFYLLEIFFCAWCTAFKFVPGGVYARERSDVLLGTMMIIG 361
LG + N ++ Y++ + W A+ FVP G RE+ + +L I
Sbjct: 569 LGQVQNIWV----YVLSFSVYIIFVLAHVWVVAYAFVPMGWVLREKIETVLAFFSSTFII 623

Query: 362 LNMLFGPKKNLDLLLQTKNSSKVLFRKSEKYMXXXXXXXXXXXXXXRHKAYERKLGK 421
+ L N+ L+ K +F R R G
Sbjct: 624 IGALTCKNLNIQLVTMGKKFFIYVF-----FFAVALLSLTARFVYDIRPTGI 670

Query: 422 VAP----TKEVSAAIWPFRGYDNEGWSSLERSAHLLNETGADFITILESDASKPYMGNN 477
P ++ ++A IW FG DN+ W+S +R +L+ + D + +LE+D + MGN
Sbjct: 671 PQPYHPDSQLITAGIWTIHFGLDNDMWASEDRMINLIKDMELDVGLLETDTQRITMGNR 730

Query: 478 DLTMWLGEKLGFYDFGPSTRYHTWGIMALSRYPIVKSEHHLLPSPEGEIAPAITLTV-N 536
DLT L L Y DFGP HTWG + LS++PIV S HHLLPSP GE+APAI T+
Sbjct: 731 DLTSKLAHDLNMYADFGPGPNKHTWCVLLSKFPIVNSTHHLLPSPVGELAPAIHATLQT 790

Query: 537 ISGKLVDFVVTBFGNHEDDLRKLQAIAVSKLLKSSSNQVIFLGYITSAPGSRDY-LQLT 595
+ LVD V H G ED+ DR+LQ+ ++KL+ +++ I L Y+ PG .+Y .++
Sbjct: 791 YNDTLVDVFVFHSGQEEDEEDRRLQSNYMAKLMGNTRPAILLSYLVVDPGEGNYNTYVS 850

Query: 596 EHGNVKDIDSTDHDRCEYIMYRGLIRLGYARISHAELSDSEIQMAKFRIPIPDDPTNYRDN 655
E + DID +D DRWCEYI+YRGL R GYAR++ ++D+E+Q+ KF++ + ++
Sbjct: 851 ETSGMHIDPSDDDRCEYIILYRGLRRTGYARVARGTITDTELQVGKFQVLSEQA-LVEH 909

Query: 656 QKVVIDHREVSEKIHFNPRFGSYKEGHNYENNHHFHM-NTPKYFL 699
+ ++ +SE + + +F G E H +H+ + P+Y+L
Sbjct: 910 SDSMYEYGHMSEPEYEDMKFPDKFLGEG-ERGHFYHVFDEPRYYL 953

Figure 4B

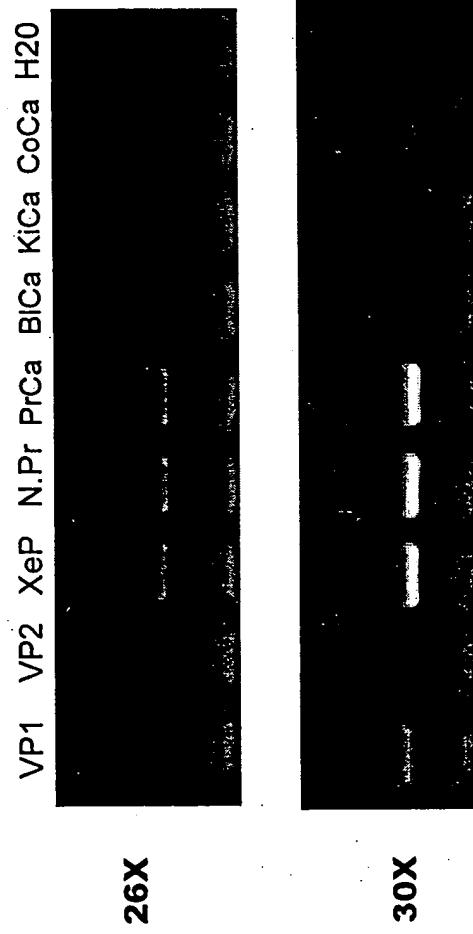
07/14/03

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EXPRESSES IN VARIOUS CANCERS
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Figure 5



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First Inventor: Mary FARIS
Application No.: 09/809,638
Docket No.: 511582003500

18379 U. S. PTO

DRAFT
07/14/03

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Figure 6C

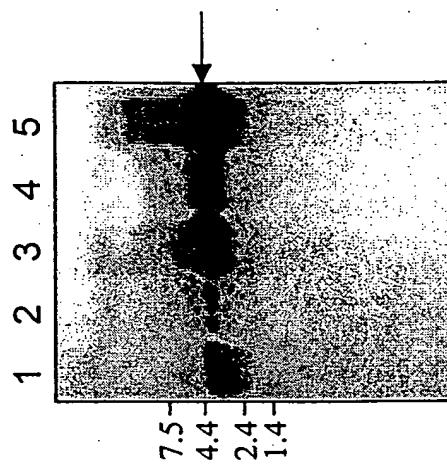


Figure 6B

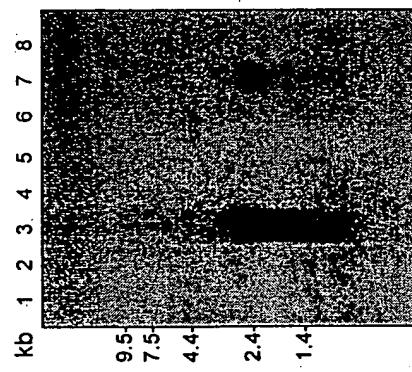
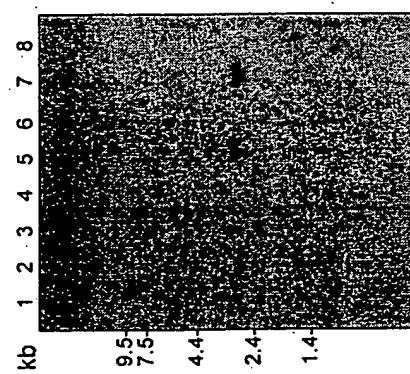


Figure 6A



18379 U.S. PTO



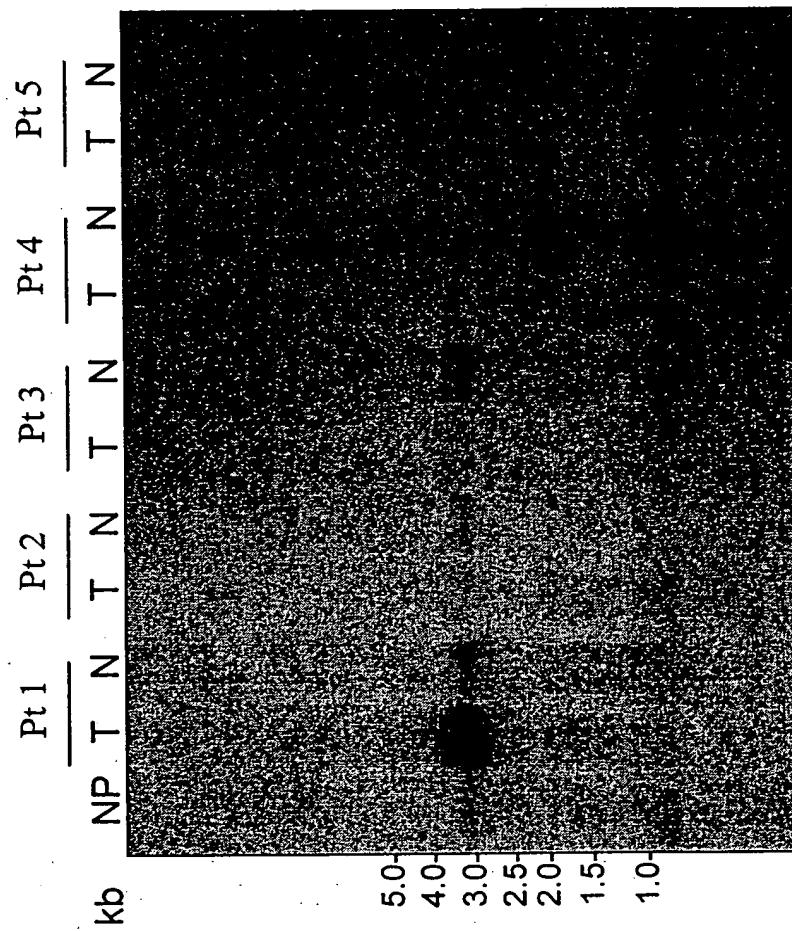
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07/14/03

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Figure 7



18379 U.S. PTO

25-112

07/14/03

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Figure 8

